Greater Vancouver Sewerage & Drainage District

Final Revenue and Expenditure Budget Year Ending December 31, 1985

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COMMISSIONER

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

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4330 Kingsway
Burnaby, B.C.
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PLEASE REFER TO
OUR FILE NO.

TO: Board of Administration

FROM: J. McLean - Secretary Treasurer

RE: 1985 Final Budget

DATE: March 4, 1985

The G.V.S. & D.D. 1985 Final Budget is presented for your consideration.

1984 Operations

Debt charges were underexpended by $1,291,234, due mostly to 1984 capital expenditures and interest rates being less than anticipated.

Total 1984 expenditures were $1,425,385 less than budget. This amount has been carried forward to reduce the 1985 requirements in arriving at the 1985 levy.

1985 Budget

Debt charges on capital borrowings are up $2,052,713 (13.5%) over 1984 due to the proposed $12,921,000 capital expenditure program. All projects have been authorized by the Board except for $2,400,000 for initial work with respect to the new Iona Island Outfall and the Waste Management Plan.

Operations and maintenance expenses are up $908,114 (8.9%) over 1984. Of this amount, $349,803 (3.4%) is attributable to the expanded sewer use control and pollution monitoring programs. Operating expenses are $76,554 (net) more than the provisional budget. Energy costs are $138,000 more than the provisional budget amount.

After taking into consideration the total 1984 under-expenditure of $1,425,385, the total 1985 levy is up $1,557,515 (5.6%) over 1984. The 1985 levy is $537,152 less than the provisional budget.

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Revenue and Expenditure Budget
Year Ending December 31, 1985

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Long-Term and Ongoing Role

Liquid and solid waste disposal (i.e. sewage, drainage and refuse) is carried out by the Sewerage and Drainage District pursuant to the Greater Vancouver Sewerage and Drainage District Act. Membership in this District by municipalities is voluntary; however, once in, there is no provision for opting out. The District is legally obliged to perform in accordance with the Act.

1. Sewage - This program involves the collection and disposal of sewage from member municipalities in accordance with the 1953 Rawn Engineering Report and subsequent amendments. The collection and disposal is accomplished through a system of trunk and intercepting sewers, pump stations and a treatment plant in each of four Sewerage Areas which cover the entire District.

2. Drainage - This program involves the maintenance and improvement of drainage channels that traverse more than one municipality and that have been designated major drainage facilities as requested by members and approved by the Administration Board. Major drainage facilities are located within established Drainage Areas (areas having a single disposal point).

3. Solid Waste - This program involves the disposal of solid wastes generated by member municipalities who have availed themselves of the District's services.

Capital Expenditure Program

The focus of the Capital Program in the 1970's was the construction of trunk interceptors to bring the sewage to the four treatment plants. In the early 1980's the focus was the expansion of the capacity of the treatment plants. For the rest of this decade the first priority is the reduction of the impact of the effluent discharges on the environment. This environmental focus is being addressed in several ways. First by the preparation of a source control program, now that the Provincial Government has named the District as a Sewerage Control Area under the Waste Management Act. The purpose of a Source Control Program is to regulate the types and quantities of liquid waste entering the sewerage system in order that the District can more effectively control the quality of the effluent leaving the treatment plants. The source control budget for 1985 has been increased by $349,803 to carry out the preparatory work necessary for the implementation of a full source control program. The second way in which the environmental focus will be addressed is by the installation of a five-mile long outfall at Iona Sewerage Treatment Plant together with some plant improvements. This work, which is estimated to cost approximately $50,000,000 is expected to commence in 1985 and be completed in 1987.

The Waste Management Act provides for the establishment of a Liquid Waste Management Plan for Regional Districts. The Districts' Rawn Report is in essence a Liquid Waste Management Plan. However, it needs to be updated to properly reflect the current and future requirements of the Region.

One of the main reasons that the preparation of a Regional Liquid Waste Management Plan should proceed in 1985 is that the final implementation of the District Source Control Program is dependent upon having a Regional Liquid Waste Management Plan in place to define the acceptable levels of water quality at each of the treatment plant outfalls. Before money is spent on additional treatment either by the District or by industry, the water quality standards required at each of the four treatment plants to maintain an acceptable environment should be determined. The 1985 Budget for this work is $400,000.

1985 Construction Program

The 1985 Construction Program includes the following:

Fraser Sewerage Area

1. Completion of installation of engine generators to utilize surplus digester gas;

2. New Westminster 20th Avenue Pump Station with a capacity of 2 cfs and 450 feet of 8" forcemain;

3. Preparation of a Waste Management Plan.

Lulu Island Sewerage Area

1. Preparation of a Waste Management Plan.

North Shore Sewerage Area

1. New Pump unit at Lions Gate Plant;

2. Preparation of a Waste Management Plan.

Vancouver Sewerage Area

1. Completion of installation of power line connection;

2. Start of construction of deep sea outfall;

3. Additional sedimentation tanks;

4. Construction of 84" relief overflow from Vernon Relief Main and 3000' of 96" relief sewer on Vernon, Grant Street to 7th and Keith;

5. Preparation of a Waste Management Plan.

Solid Waste Disposal

1. Closure costs at Coquitlam landfill;

2. Site acquisition and start of construction on incinerator;

3. Preparation of a Waste Management Plan.

Schedule 1

Schedule 1

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Levy for Debt Charges,
Administration and
Operation & Maintenance Expenses

Year Ending December 31, 1985

1984 Actual		Requirements for the Year Ending December 31, 1985	% Change over 1984 Actual	(Underexpended) Overexpended in 1984	1985 Levy
	GVS&DD Facilities Sewerage & Drainage Debt Charges				
$15,244,913	GVS&DD Debt Charges (Schedule 4)	$17,297,626	+ 13.5%	$(1,082,088)	$16,215,538
(454,146)	Recovery - Interest earned less Sundry Financial Charges	(375,000)	- 17.4%	(209,146)	(584,146)
14,790,767	TOTAL DEBT CHARGES	16,922,626	+ 14.4%	(1,291,234)	15,631,392
344,810	Administration & General Expense (Schedule 6)	411,576	+ 19.4%	13,110	424,686
10,163,490	Operation & Maintenance (Schedule 9)	11,071,604	+ 8.9%	(71,123)	11,000,481
1,255	Research & Development	24,822	+1877.8%	(23,245)	1,577
25,300,322	Total Sewerage & Drainage	28,430,628	+ 12.4%	(1,372,492)	27,058,136
160,819	Recycling Program	100,000	- 37.8%	(681)	99,319
(56,874)	Waste Disposal (Sched. 11)	(58,000)	+ 2.0%	(56,874)	(114,874)
25,404,267	Total GVS&DD facilities	28,472,628	+ 12.1%	(1,430,047)	27,042,581
2,176,138	Financing for Members under Section 7(2) Debt Charges (Schedule 5)	2,325,081	+ 6.8%	4,662	2,329,743
$27,580,405		$30,797,709	+ 11.7%	$(1,425,385)	$29,372,324

Schedule 1

Burnaby	Coquitlam	Delta	Langley (City)	Maple Ridge	New West-minster	N. Van. City	N. Van. Dist.	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
$2,345,071	$ 892,145	$ 989,927	$235,077	$1,004,594	$ 849,129	$297,559	$ 444,987	$178,062	$344,413	$316,465	$ 999,886	$1,856,311	$25,805	$4,915,989	$ 371,866	$148,252
(90,525)	(34,886)	(30,935)	(7,357)	(22,989)	(24,230)	(13,215)	(24,274)	(4,083)	(10,773)	(10,753)	(49,112)	(58,715)	(891)	(167,639)	(29,132)	(4,637)
2,254,546	857,259	958,992	227,720	981,605	824,899	284,344	420,713	173,979	333,640	305,712	950,774	1,797,596	24,914	4,748,350	342,734	143,615
49,010	17,030	22,174	4,566	7,064	12,475	13,557	20,422	1,596	6,709	5,847	39,562	37,714	903	168,566	14,615	2,876
1,546,508	540,274	575,057	137,769	167,524	381,388	367,016	548,154	29,786	201,561	194,077	1,210,646	1,084,072	19,031	3,517,961	392,879	86,778
182	63	83	17	26	46	50	76	6	25	22	147	140	3	626	54	11
3,850,246	1,414,626	1,556,306	370,072	1,156,219	1,218,808	664,967	989,365	205,367	541,935	505,658	2,201,129	2,919,522	44,851	8,435,503	750,282	233,280
11,462	3,983	5,186	1,068	1,652	2,918	3,170	4,776	373	1,569	1,367	9,252	8,820	211	39,421	3,418	673
(13,257)	(4,606)	(5,998)	(1,235)	(1,911)	(3,374)	(3,667)	(5,524)	(432)	(1,815)	(1,582)	(10,701)	(10,201)	(244)	(45,596)	(3,953)	(778)
3,848,451	1,414,003	1,555,494	369,905	1,155,960	1,218,352	664,470	988,617	205,308	541,689	505,443	2,199,680	2,918,141	44,818	8,429,328	749,747	233,175
703,389	340,144						231,926			35,249	269,773	34,196			715,066	
$4,551,840	$1,754,147	$1,555,494	$369,905	$1,155,960	$1,218,352	$664,470	$1,220,543	$205,308	$541,689	$540,692	$2,469,453	$2,952,337	$44,818	$8,429,328	$1,464,813	$233,175

Schedule 2

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT
DEBENTURE DEBT CHARGES
YEAR ENDING DECEMBER 31, 1985

SINKING FUND DEBENTURES

ISSUE NUMBER	BY-LAW NO.	MATURITY DATE	DEBT RETIREMENT	INTEREST	TOTAL
18	23	Apr. 1, 1986	$	$ 357,500	$ 357,500
19	24	Jun. 15, 1986		165,000	165,000
21	36	Nov. 1, 1987		192,500	192,500
41	64	May 1, 1991	56,428	129,250	185,678
47	75	Jul. 15, 1989-1994	8,454	259,821	268,275
48	78	Jan. 15, 1995		256,500	256,500
49	82	May 1, 1990		380,000	380,000
50	88	Oct. 1, 1995	62,857	277,500	340,357
53A	89	May 15, 1991	206,553	207,840	414,393
57B	93	Apr. 15, 1992	204,883	199,718	404,601
74B	114	Apr. 15, 1995	113,703	190,000	303,703
94	135	Apr. 15, 1987	300,000	1,700,000	2,000,000
95	138	Sep. 15, 1988	400,000	1,125,000	1,525,000
96	140	Oct. 15, 1989	180,000	765,000	945,000
			1,532,878	6,205,629	7,738,507

SERIAL DEBENTURES

20	30	Feb. 1, 1985-1987	$ 204,066	$ 23,907	$ 227,973
22	32	Jul. 1, 1985-2002	1,977	2,637	4,614
23	33	Jul. 1, 1985-2002	1,437	2,002	3,439
24	37	Mar. 1, 1985-1988	254,899	46,994	301,893
25	38	Oct. 1, 1985-2002	7,816	11,952	19,768
26	39	Jul. 1, 1985-2003	1,753	2,551	4,304
27	40	Jul. 1, 1985-2003	2,385	3,471	5,856
28	42	Jul. 1, 1985-2003	1,291	1,879	3,170
29	43	Jul. 1, 1985-2003	92,348	140,181	232,529
30	44	Dec. 2, 1985-1988	215,986	50,123	266,109
31	46	Jul. 1, 1985-2003	1,955	2,967	4,922
32	50	Jun. 15, 1985-1989	109,288	27,881	137,169
33	51	Jul. 1, 1985-2004	11,857	18,764	30,621
34	54	Nov. 16, 1985-1989	200,386	60,056	260,442
35	55	Jul. 1, 1985-2005	7,056	13,056	20,112
36	57	Jul. 1, 1985-1990	870	290	1,160
37	58	Jul. 1, 1985-1990	2,118	705	2,823
38	59	Jul. 2, 1985-1990	111,008	37,887	148,895
39	60	Jul. 1, 1985-2005	56,637	101,161	157,798
40	61	Dec. 1, 1985-2005	2,857	5,683	8,540
42	65	Jul. 1, 1985-2006	10,195	20,449	30,644
43	69	May 1, 1985-1992	126,699	67,717	194,416
44	70	Jan. 1, 1985-2007	20,606	44,704	65,310
45	71	Jan. 1, 1985-2007	725	1,967	2,692
46	72	Jul. 1, 1985-2007	1,213	3,307	4,520
51	90	Sep. 1, 1985-1990	7,088	3,302	10,390
		Carried Forward	1,454,516	695,593	2,150,109

Schedule 2
(Cont'd.)

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT
DEBENTURE DEBT CHARGES
YEAR ENDING DECEMBER 31, 1985

SERIAL DEBENTURES

ISSUE NUMBER	BY-LAW NO.	MATURITY DATE	DEBT	INTEREST	TOTAL
		Brought Forward	$1,454,516	$ 695,593	$ 2,150,109
52	91	Jul. 1, 1985-1991	5,793	2,751	8,544
54	94	Jan. 1, 1985-1992	26,681	19,135	45,816
55	94	Jan. 1, 1985-1992	22,784	17,340	40,124
56	94	Jan. 1, 1985-1992	20,549	15,639	36,188
58	103	Jan. 1, 1985-1992	91,696	52,995	144,691
59B	102	Feb. 15, 1985-1992	162,521	140,889	303,410
60B	104	Jul. 2, 1985-1993	210,523	201,855	412,378
61	106	Jan. 1, 1985-1993	29,694	22,799	52,493
62	106	Jan. 1, 1985-1993	27,065	20,780	47,845
63	106	Jan. 1, 1985-1993	21,508	17,254	38,762
64	106	Jan. 1, 1985-1993	230,551	158,686	389,237
65	108	Jan. 1, 1985-1993	34,541	29,534	64,075
66	108	Jan. 1, 1985-1993	23,055	20,964	44,019
67	108	Jan. 1, 1985-1993	18,354	14,724	33,078
68	109	Jan. 1, 1985-1993	122,103	104,404	226,507
69	108	Jul. 1, 1985-1993	15,923	13,820	29,743
70	108	Jul. 1, 1985-1993	39,789	35,299	75,088
71	110	Jan. 1, 1985-1994	28,592	28,706	57,298
72	110	Jan. 1, 1985-1994	26,737	25,131	51,868
73	110	Jan. 1, 1985-1994	115,472	108,536	224,008
74A	114	Apr. 15, 1985-1995	56,986	4,867	61,853
75	115	Jan. 1, 1985-1995	66,583	72,452	139,035
76	115	Jan. 1, 1985-1995	24,056	26,176	50,232
77	115	Jan. 1, 1985-1995	87,359	95,060	182,419
78	115	Jan. 1, 1985-1995	106,990	119,128	226,118
79	117	Jul. 1, 1985-1995	169,429	197,272	366,701
80	117	Jul. 1, 1985-1995	45,814	48,454	94,268
81	117	Jan. 1, 1985-1996	108,955	139,210	248,165
82	117	Jan. 1, 1985-1996	97,909	134,127	232,036
83	117	Jan. 1, 1985-1996	2,430	4,679	7,109
84	117	Jan. 1, 1985-1996	2,076	4,241	6,317
85	118	May 5, 1985-1996	350,000	377,183	727,183
86	119	Jul. 1, 1985-1995	32,741	40,854	73,595
87	119	Jan. 1, 1985-1996	31,171	42,701	73,872
88	121	Nov. 1, 1985-1997	107,504	227,599	335,103
89	124	Jan. 1, 1985-1997	177,172	257,725	434,897
90	125	Jan. 1, 1985-1998	94,347	241,802	336,149
91	126	Jan. 1, 1985-1999	15,298	43,265	58,563
92	127	Jan. 1, 1985-2000	46,849	155,628	202,477
93	128	Sep. 15, 1985-2000	400,000	773,093	1,173,093
			4,752,116	4,752,350	9,504,466
			$6,284,994	$10,957,979	$17,242,973

Schedule 3

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Debt Charges
Year Ending December 31, 1985

1984 Actual	Debenture Debt	1985 Budget Debt Retirement	1985 Budget Interest	1985 Budget Total
$	Greater Vancouver Sewerage & Drainage District Debenture Debt (Sch. 2)	$6,284,994	$10,957,979	$17,242,973
	Premium on U.S. Funds	146,400	419,900	566,300
	Proposed 1985 debenture issue	293,836	1,175,342	1,469,178
17,117,950		6,725,230	12,553,221	19,278,451
	Agreements for the purchase of facilities			
5,529	City of North Vancouver Schedule 'C'	5,066	348	5,414
	Debt charges assumed re members' facilities			
1,544	City of Langley			
9,050	City of Port Coquitlam	6,299	2,743	9,042
10,594		6,299	2,743	9,042
1,062,474	Interest on anticipated temporary capital borrowing		566,000	566,000
18,196,547	TOTAL DEBT CHARGES	6,736,595	13,122,312	19,858,907
	Less			
(177,410)	Reversal of accrual re sinking fund instalments discontinued			
(579,419)	Interest charged to construction projects		(214,800)	(214,800
(18,667)	Debt charges recovered from non-members	(6,600)	(14,800)	(21,400
$17,421,051	NET DEBT CHARGES	$6,729,995	$12,892,712	$19,622,707

Schedule 4

Schedule 4

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Distribution of Interest
and Debt Retirement Charges
Year Ending December 31, 1985

1984 Actual		Requirements for the Year Ending December 31, 1985	(Underexpended) Overexpended in 1984	1985 Levy
	Sewerage Areas			
	Fraser			
$ 6,752,223	- General Facilities	$ 7,576,869	$ (434,985)	$ 7,141,884
800,719	- Maple Ridge/Pitt Meadows Facilities	1,034,477	(193,472)	841,005
660,258	Lulu Island West	690,709	120	690,829
	North Shore			
53,002	- Gleneagles Interceptor	53,002		53,002
854,894	- Other Facilities	894,198	(20,951)	873,247
4,269,283	Vancouver	5,004,679	(445,763)	4,558,916
	Drainage Areas			
698	Byrne Road	701	(18)	683
15,785	Kyle Street	15,834	(33)	15,801
4,788	Musqueam	4,558		4,558
5,788	Schoolhouse	5,334		5,334
	Still Creek-Brunette River			
195,246	- General	205,072	(22,283)	182,789
193,595	- Lower Brunette	221,987	(19,185)	202,802
(2)	University		(7)	(7)
1,078	William Street	1,111	(34)	1,077
	General			
86,531	Investigations, contribution to equipment fund & updating Rawn Report	93,957	(9,104)	84,853
	Solid Waste Disposal Plan	25,767		25,767
1,351,027	Land Improvement Fund	1,469,371	63,627	1,532,998
15,244,913	Total Relative to District's Facilities	17,297,626	(1,082,088)	16,215,538
2,176,138	Financing for members under Section 7(2)	2,325,081	4,662	2,329,743
$17,421,051	TOTAL (Schedule 3)	$19,622,707	$(1,077,426)	$18,545,281

Schedule 4

Burnaby	Coquitlam	Delta	Langley (City)	Maple Ridge	New Westminster	N. Van. (City)	N. Van. (Dist.)	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
$1,689,541	$804,800	$904,065	$217,682	$ 262,488	$594,699	$	$	$ 46,174	$318,433	$278,714	$ 62,414	$1,710,279	$	$ 115,481	$	$137,114
				715,196				125,809								
											690,829					
						245,066	365,909								53,002 262,272	
335,462											93,453		22,317	4,107,684		
682					1											
	5,347									10,454						
														4,558		
	2,376									2,958						
129,611	13,308				3,321 202,802					994				35,555		
													(7)			
	371									706						
9,792	3,403	4,430	912	1,411	2,493	2,709	4,080	319	1,341	1,168	7,905	7,535	180	33,680	2,920	575
3,069	1,067	1,389			781	849	1,279		420	366	2,477	2,362	57	10,556	915	180
176,914	61,473	80,043	16,483	25,499	45,032	48,935	73,719	5,760	24,219	21,105	142,808	136,135	3,258	608,475	52,757	10,383
$2,345,071	$892,145	$989,927	$235,077	$1,004,594	$849,129	$297,559	$444,987	$178,062	$344,413	$315,465	$999,886	$1,856,31[illegible]	$25,805	$4,915,989	$371,866	$148,252

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT — Schedule 5

Distribution of Interest and Debt Retirement Charges For Financing Under Section 7(2) Year Ending December 31, 1985

		Requirements for the Year Ending December 31, 1985	(Underexpended) Overexpended in 1984	1985 Levy
District of Burnaby	3	$ 122,236	$	$ 122,236
	4	84,895		84,895
	5	116,322		116,322
	6	134,710		134,710
	7	141,322	2,266	143,588
	8	101,096	542	101,638
		700,581	2,808	703,389
District of Coquitlam	1	37,747		37,747
	2	20,083		20,083
	3	31,819		31,819
	4	45,461		45,461
	5	33,822	500	34,322
	6	57,732		57,732
	7	15,990		15,990
	8	15,715		15,715
	9	35,680		35,680
	10	45,594	1	45,595
		339,643	501	340,144
District of North Vancouver	1	71,890		71,890
	2	106,376	1,058	107,434
	3	52,255	347	52,602
		230,521	1,405	231,926
City of Port Moody	1	35,015	234	35,249
Township of Richmond	1	26,823	354	27,177
	2	20,192	219	20,411
	3	46,263	(4)	46,259
	4	95,039		95,039
	5	37,417		37,417
	6	43,470		43,470
		269,204	569	269,773
District of Surrey	1	33,972	224	34,196
District of West Vancouver	1	41,670		41,670
	2	28,419		28,419
	3	34,170		34,170
	4	26,101		26,101
	5	24,340		24,340
	6	11,866		11,866
	7	409,101	(1,079)	408,022
	8	140,478		140,478
		716,145	(1,079)	715,066
		$2,325,081	$ 4,662	$2,329,743

Schedule 6

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Administration
and General Expense Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Administration				
Allocated from Greater Vancouver Regional District				
- Administration offices	$ 193,000	$ 185,692	$ 182,000	$ 184,100
- Corporate Services			71,400	75,300
- Central administrative services	62,100	63,436	67,100	67,100
Assessment database	20,600	28,874	20,309	13,200
Engineering administration	25,600	29,659	34,646	34,646
Waste Disposal administration		1,359		5,000
	301,300	309,020	375,455	379,346
General				
Legal	10,000	3,911	10,000	10,000
Audit	12,700	14,000	12,700	14,000
Consultants		11,854		
Travel	3,500	2,799	3,500	3,500
Miscellaneous	4,200	3,226	4,730	4,730
	30,400	35,790	30,930	32,230
TOTAL	$ 331,700	$ 344,810	$ 406,385	$ 411,576

Schedule 7

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Operation and Maintenance Budget
By Object of Expenditure
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Salaries, wages & employee benefits	$ 4,825,744	$ 4,705,056	$ 5,131,629	$ 5,114,894
Materials & supplies	832,090	807,780	963,720	954,780
Other services	173,330	146,775	179,660	112,360
Vehicle & equipment rentals	461,830	495,764	363,145	363,145
Repairs & maintenance	120,210	117,725	109,780	102,760
Fuel oil	186,200	196,719	177,360	244,560
Natural gas	211,520	210,154	197,230	234,050
Electricity	1,305,000	1,444,429	1,504,110	1,538,090
Chlorine & sulphur dioxide	430,640	401,336	447,900	454,190
Water	114,960	122,961	121,520	133,010
Lubricants	48,860	47,344	53,600	53,600
Telephone	42,470	40,579	44,820	44,820
Insurance	107,300	104,378	110,720	99,620
Janitor service	5,620	2,630	5,670	5,670
Land taxes & rentals	260,510	262,619	238,741	251,281
Provision for equipment replacement	43,500	53,533	32,920	34,190
Provision for major repairs	261,400	261,400	262,400	261,400
Provision for contingencies	51,547			
Sludge & treatment studies	20,000	3,899	20,735	20,735
Costs allocated				
Beach yard control system	137,540	141,135	149,073	149,073
Radio communications	50,276	47,471	54,916	54,916
Central laboratory costs allocated			195,465	200,585
Indirect departmental costs	679,966	696,321	768,336	782,275
	10,370,513	10,310,008	11,133,450	11,210,004
Less: Recoveries	135,900	146,518	138,400	138,400
	$10,234,613	$10,163,490	$10,995,050	$11,071,604

Schedule 8

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Operation and Maintenance Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Fraser Sewerage Area				
Annacis Is. Sewage Treatment Plant	$2,301,129	$2,350,537	$2,455,858	$2,449,328
Annacis Is. laboratory	57,660	53,069	67,869	68,095
Interceptors & trunk sewers	320,608	539,049	330,183	330,183
Pumping stations	931,065	1,007,565	951,698	958,305
Engineering	44,533	35,732	49,834	49,834
Sludge disposal investigations	3,000	1,476	2,645	2,645
Sewer use control			213,587	214,732
Provision for contingencies	17,009			
	3,675,004	3,987,428	4,071,674	4,073,122
Lulu Island West Sewerage Area				
Lulu Is. Sewage Treatment Plant	859,149	763,681	902,774	915,414
Lulu Is. laboratory	56,379	54,828	61,965	62,191
Trunk sewers	6,014	9,571	7,294	7,294
Pumping stations	46,540	48,151	49,934	49,934
Engineering	1,242	1,603	2,264	2,264
Sludge disposal investigations	2,500	912	2,743	2,743
Sewer use control			118,659	119,297
Provision for contingencies	3,020			
	974,844	878,746	1,145,633	1,159,137
North Shore Sewerage Area				
Lions Gate Sewage Treatment Plant	833,940	784,417	860,868	861,948
Lions Gate laboratory	54,668	53,036	62,138	62,364
Lynn Pumping Station	59,994	70,258	75,576	76,519
Interceptors	161,507	219,435	175,459	175,459
Engineering	3,018	3,656	4,918	4,918
Sludge disposal investigations	2,000	255	1,081	1,081
Sewer use control			71,195	71,576
Provision for contingencies	5,372			
	1,120,499	1,131,057	1,251,235	1,253,865
Vancouver Sewerage Area				
Iona Is. Sewage Treatment Plant	2,698,532	2,560,392	2,911,707	2,909,756
Iona Is. outfall, channel, jetty, roads & wharves	14,997	9,555	14,267	14,267
Iona Is. laboratory	59,770	54,865	65,269	65,495
Investigation of pollution of Sturgeon Bank	10,000	9,655	11,027	11,027
Pumping stations	439,872	415,437	422,074	428,963
Interceptors & trunk sewers	226,934	232,157	224,680	274,520
Engineering	9,822	10,137	11,212	11,212
Sludge Disposal Investigations	2,500	1,096	3,238	3,238
Sewer use control			71,195	71,576
Provision for contingencies	22,512			
	3,484,939	3,293,294	3,734,669	3,790,054

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Operation and Maintenance Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Byrne Road Drainage Area				
Willard St. Pumping Station	10,702	6,084	9,948	9,948
Kyle Street Drainage Area				
Trunk drain	17,031	12,939	16,144	11,160
Schoolhouse Creek Drainage Area				
Schoolhouse Creek	16,239	16,477	14,888	14,888
Still Creek - Brunette River Drainage Area				
Brunette River & Burnaby Lake	118,393	114,514	114,591	114,591
Stoney Creek	24,794	24,726	27,334	27,334
Still Creek	89,929	95,383	108,217	108,217
Lozells Creek	17,276	22,242	18,602	18,602
Provision for contingencies	313			
	250,705	256,865	268,744	268,744
University Drainage Area				
Shaft & tunnel	361	595	372	372
William Street Drainage Area				
Trunk drain	6,101	5,016	5,853	5,853
Pollution Monitoring	65,763	67,235	182,050	190,621
Sewer Use Control	331,520	250,764		
Miscellaneous				
Rain, sewer & stream gauges	93,089	68,384	89,851	89,851
Radio communications	50,276	47,471	54,916	54,916
Beach yard control system	137,540	141,135	149,073	149,073
	280,905	256,990	293,840	293,840
TOTAL	$10,234,613	$10,163,490	$10,995,050	$11,071,604

Schedule 9

Schedule 9

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Distribution of
Operation & Maintenance Expenses
Year Ending December 31, 1985

1984 Actual		Requirements for the Year Ending December 31, 1985	(Underexpended) Overexpended in 1984	1985 Levy
	Sewerage Areas			
$ 3,987,428	Fraser	$ 4,073,122	$312,424	$ 4,385,546
878,746	Lulu Island West	1,159,137	(96,098)	1,063,039
1,131,057	North Shore	1,253,865	10,558	1,264,423
3,293,294	Vancouver	3,790,054	(191,645)	3,598,409
	Drainage Areas			
6,084	Byrne Road	9,948	(4,618)	5,330
12,939	Kyle Street	11,160	(4,092)	7,068
16,477	Schoolhouse Creek	14,888	238	15,126
256,865	Still Creek-Brunette River	268,744	6,160	274,904
595	University	372	234	606
5,016	William Street	5,853	(1,085)	4,768
	General			
67,235	Pollution Monitoring	190,621	1,472	192,093
250,764	Sewer Use Control		(80,756)	(80,756)
256,990	Miscellaneous	293,840	(23,915)	269,925
$10,163,490		$11,071,604	$(71,123)	$11,000,481

Schedule 9

Burnaby	Coquitlam	Delta	Langley (City)	Maple Ridge	New Westminster	N. Van. (City)	N. Van. (Dist.)	Pitt Meadows	Port Coquitlam	Port Moody	Richmond	Surrey	U.E.L.	Vancouver	West Vancouver	White Rock
$1,037,480	$494,196	$555,150	$133,670	$161,183	$365,181	$	$	$28,353	$195,537	$171,147	$ 38,326	$1,050,214	$	$ 70,913	$	$84,196
											1,063,039					
						354,845	529,820								379,758	
264,784											73,764		17,615	3,242,246		
5,318					12											
	2,392									4,676						
	6,739									8,387						
194,928	20,014				4,995					1,494				53,473		
													606			
	1,644									3,124						
22,168	7,703	10,030	2,065	3,194	5,643	6,132	9,237	722	3,035	2,645	17,995	17,059	408	76,245	6,611	1,301
(9,320)	(3,238)	(4,217)	(868)	(1,343)	(2,372)	(2,578)	(3,883)	(303)	(1,276)	(1,112)	(7,523)	(7,171)	(172)	(32,054)	(2,779)	(547)
31,150	10,824	14,094	2,902	4,490	7,929	8,617	12,980	1,014	4,265	3,716	25,145	23,979	574	107,138	9,299	1,828
$1,546,508	$540,274	$575,057	$137,769	$167,524	$381,388	$367,016	$548,154	$29,786	$201,561	$194,077	$1,210,646	$1,084,072	$19,031	$3,517,961	$392,879	$86,778

Schedule 10

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Sewage Treatment Plants
Operation and Maintenance Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Annacis Island Sewage Treatment Plant				
Salaries & employee benefits	$ 947,985	$ 930,433	$1,043,590	$1,023,970
Vehicle & equipment rentals	138,010	130,174	66,310	66,310
Natural gas	10,000	4,066	9,100	9,100
Electricity	342,700	446,032	428,000	455,000
Chlorine & sulphur dioxide	164,000	136,563	175,480	164,000
Water	51,240	48,852	54,600	54,600
Purchased repairs & maintenance	36,540	24,182	30,980	30,980
Parts, materials & supplies	210,690	218,321	223,310	223,310
Other services	20,800	26,388	23,120	23,120
Janitor service	3,000	1,680	3,150	3,150
Insurance	20,730	20,258	21,320	21,320
Property taxes	77,740	69,469	73,810	73,810
Telephone	8,680	7,984	8,640	8,640
Provision for equipment replacement	6,000	7,989	6,500	6,500
Indirect departmental costs allocated	125,554	140,328	149,858	147,428
Lubricants	12,130	13,263	12,920	12,920
Fuel oil	3,730	2,955	3,570	3,570
	2,179,529	2,228,937	2,334,258	2,327,728
Provision for major repairs	121,600	121,600	121,600	121,600
	$2,301,129	$2,350,537	$2,455,858	$2,449,328
Iona Island Sewage Treatment Plant				
Treatment Plant Operation				
Salaries & employee benefits	$ 593,180	$ 586,336	$ 623,354	$ 623,354
Vehicle & equipment rentals	14,000	16,979	17,500	17,500
Water	28,000	27,224	29,400	29,400
Chlorine & sulphur dioxide	193,150	202,877	199,230	217,000
Telephone	810	470	760	760
Insurance	130	22	50	50
Purchased repairs & maintenance	40	96	250	250
Parts, materials & supplies	10,840	6,826	9,920	9,920
Provision for equipment replacement	6,080	12,789	9,700	9,700
Other services	220	346	350	350
Indirect departmental costs allocated	71,149	76,112	77,237	77,237
	917,599	930,077	967,751	985,521

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Schedule 10
(Continued)

Sewage Treatment Plants
Operation and Maintenance Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Iona Island Sewage Treatment Plant				
Treatment Plant Maintenance				
Salaries & employee benefits	$ 439,861	$ 399,585	$ 487,961	$ 461,801
Vehicle & equipment rentals	103,000	69,246	75,970	75,970
Purchased repairs & maintenance	18,060	14,023	17,220	17,220
Parts, materials & supplies	140,800	132,909	257,380	247,380
Fuel oil	12,250	9,072	11,030	11,030
Lubricants	3,160	5,400	5,250	5,250
Other services	10,740	24,182	7,140	8,090
Provision for equipment replacement	600	158	200	200
Indirect departmental costs allocated	56,156	55,841	66,846	63,606
	784,627	710,416	928,997	890,547
Provision for major repairs	95,000	95,000	96,000	95,000
	879,627	805,416	1,024,997	985,547
Power Plant Operation				
Salaries & employee benefits	182,960	192,521	193,301	207,888
Fuel oil	144,190	111,289	147,000	147,000
Natural gas	169,700	177,848	165,850	190,000
Lubricants	26,720	23,065	27,300	27,300
Purchased repairs & maintenance	100	294	100	100
Parts, materials & supplies	750	327	890	890
Other services	3,090	119	2,180	2,180
Indirect departmental costs allocated	21,945	24,950	23,941	25,748
	549,455	530,413	560,562	601,106
Power Plant Maintenance				
Salaries & employee benefits	95,711	81,893	109,581	91,060
Vehicles & equipment rentals	550	1,166	680	680
Purchased repairs	42,600	17,803	20,390	20,390
Parts, materials & supplies	43,980	27,575	43,120	43,120
Other services	700	487	760	760
Indirect departmental costs allocated	12,077	10,749	13,820	11,526
	195,618	139,673	188,351	167,536
General				
Salaries & employee benefits	152,964	154,960	166,455	166,455
Vehicle & equipment rentals	10,080	9,357	9,530	9,530
Telephone	5,320	4,856	5,400	5,400
Insurance	30,300	28,147	29,610	29,610
Property taxes	33,630	32,141	34,020	34,020
Materials & supplies	4,450	11,025	3,570	3,570
Other services	5,790	11,140	5,310	5,310
Purchased repairs		35	100	100
Indirect departmental costs allocated	21,369	23,367	26,451	26,451
Provision for equipment replacement	2,330	1,768	2,100	2,100
	266,233	276,796	282,546	282,546
Less: Recoveries	110,000	121,983	112,500	112,500
	156,233	154,813	170,046	170,046
TOTAL	$2,698,532	$2,560,392	$2,911,707	$2,909,756

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

Sewage Treatment Plants
Operation and Maintenance Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Lions Gate Sewage Treatment Plant				
Salaries & employee benefits	$ 357,168	$ 318,631	$ 359,685	$ 346,605
Vehicle & equipment rentals	23,400	28,191	28,470	28,470
Water	20,300	20,287	21,530	21,530
Natural gas	20,000	11,661	6,740	17,000
Electricity	105,180	108,492	112,350	112,350
Chlorine & sulphur dioxide	22,010	17,982	22,360	22,360
Purchased repairs & maintenance	7,360	27,316	19,010	11,990
Insurance	12,850	12,868	13,550	13,550
Janitor service	1,420	480	1,260	1,260
Lubricants	4,140	3,503	4,310	4,310
Parts, materials & supplies	120,300	77,626	117,920	117,920
Fuel oil	1,280	8,704	9,980	9,980
Land rentals	72,871	86,665	74,160	86,700
Telephone	3,100	2,892	3,350	3,350
Other services	10,260	11,817	13,620	13,620
Provision for equipment replacement	4,930	3,414	3,700	3,700
Indirect departmental costs allocated	47,371	43,888	48,873	47,253
	$ 833,940	$ 784,417	$ 860,868	$ 861,948
Lulu Island Sewage Treatment Plant				
Salaries & employee benefits	$ 338,818	$ 303,752	$ 340,598	$ 340,598
Vehicle & equipment rentals	27,640	22,365	21,050	21,050
Fuel oil	20,000	58,758	1,050	68,250
Natural gas	10,300	14,929	13,590	16,000
Electricity	99,600	100,603	108,820	108,820
Chlorine & sulphur dioxide	51,480	43,914	50,830	50,830
Water	8,330	18,726	8,720	20,000
Purchased repairs	2,420	3,670	3,570	3,570
Parts, materials & supplies	116,380	87,324	168,530	168,530
Janitor service	1,200	470	1,260	1,260
Insurance	6,990	6,002	6,300	6,300
Telephone	4,530	5,467	5,830	5,830
Other services	15,600	10,282	13,155	13,155
Contract services	65,000	1,317	68,250	
Indirect departmental costs allocated	43,431	40,536	44,881	44,881
Lubricants	1,400	342	1,050	1,050
Provision for equipment replacement	1,230	424	490	490
	814,349	718,881	857,974	870,614
Provision for major repairs	44,800	44,800	44,800	44,800
	$ 859,149	$ 763,681	$ 902,774	$ 915,414

Schedule 11

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Solid Waste Disposal
Revenue & Expenditure Budget
Year Ending December 31, 1985

	1984 Final Budget	1984 Actual	1985 Provisional Budget	1985 Final Budget
Revenue				
User charges	$3,664,000	$4,389,780	$4,479,000	$4,479,000
Expenditures				
Start-up and closure costs	42,000	115,840	65,000	65,000
Contract services	2,992,000	3,573,719	3,801,000	3,801,000
Royalties	170,000	202,851	200,000	200,000
Administration & general expenses				
Salaries & employee benefits	48,000	32,399	72,000	72,000
Board vehicles & mileage	5,000	1,819	8,000	8,000
Consultants		11,251	8,000	8,000
Rented vehicles & equipment	4,000		6,000	6,000
Purchased repairs	10,000	4,768	7,000	7,000
Other services & supplies	22,000	21,589	21,000	21,000
Central administrative services allocated	3,000	4,000	4,000	8,000
Indirect departmental costs	8,000	7,834	14,000	14,000
Provision for equipment replacement	185,000	181,836	187,000	211,000
Provision for contingencies	175,000	175,000		
	3,664,000	4,332,906	4,393,000	4,421,000
Net Income	$ NIL	$ 56,874	$ 86,000	$ 58,000

Schedule 12

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Assessed Values Taxable by Rate for
Regional Hospital District Purposes for 1984

	Total	%
Vancouver Sewerage Area		
Burnaby	$ 249,854,049	7.35837
Richmond	69,604,604	2.04990
University Endowment Lands	16,621,610	0.48952
Vancouver	3,059,429,275	90.10221
	$3,395,509,538	100.00000
Fraser Sewerage Area		
General Facilities		
Burnaby	$ 652,643,426	23.65679
Coquitlam	310,881,970	11.26874
Delta	349,226,610	12.65864
Langley (City)	84,086,987	3.04796
Maple Ridge	101,395,046	3.67533
New Westminster	229,723,155	8.32692
Pitt Meadows	17,836,254	0.64652
Port Coquitlam	123,005,874	4.45867
Port Moody	107,663,059	3.90253
Richmond	24,109,293	0.87391
Surrey	660,654,479	23.94717
Vancouver	44,608,626	1.61696
White Rock	52,964,959	1.91986
	$2,758,799,738	100.00000
Maple Ridge/Pitt Meadows Facilities		
Maple Ridge	$ 101,395,046	85.04063
Pitt Meadows	17,836,254	14.95937
	$ 119,231,300	100.00000
North Shore Sewerage Area		
North Vancouver - City	$ 249,636,387	28.06377
North Vancouver - District	372,733,109	41.90213
West Vancouver	267,163,167	30.03410
	$ 889,532,663	100.00000
Lulu Island West Sewerage Area		
Richmond		100.00000
Still Creek-Brunette River Drainage Area		
Burnaby	$ 544,345,522	70.90751
Coquitlam	55,890,993	7.28047
New Westminster	13,949,803	1.81713
Port Moody	4,172,598	0.54353
Vancouver	149,324,958	19.45136
	$ 767,683,874	100.00000

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Assessed Values Taxable by Rate for
Regional Hospital District Purposes for 1984

	Total	%
Byrne Road Drainage Area		
Burnaby	$ 196,005,393	99.78123
New Westminster	429,736	.21877
	$ 196,435,129	100.00000
Kyle Street Drainage Area		
Coquitlam	$ 5,703,372	33.84023
Port Moody	11,150,448	66.15977
	$ 16,853,820	100.00000
William Street Drainage Area		
Coquitlam	$ 3,996,602	34.46973
Port Moody	7,597,924	65.53027
	$ 11,594,526	100.00000
University Drainage Area		
University Endowment Lands		100.00000
Schoolhouse Creek Drainage Area		
Coquitlam	$ 14,142,475	44.55184
Port Moody	17,601,389	55.44816
	$ 31,743,864	100.00000
U.E.L. South Musqueam Drainage Area		
Vancouver		100.00000
Lower Mainland Solid Waste Disposal Plan		
Burnaby	$ 902,497,469	11.91132
Coquitlam	313,596,687	4.13891
Delta	408,328,273	5.38919
New Westminster	229,723,155	3.03193
North Vancouver (City)	249,636,387	3.29475
North Vancouver (District)	376,068,200	4.96342
Port Coquitlam	123,550,403	1.63064
Port Moody	107,663,059	1.42096
Richmond	728,510,044	9.61501
Surrey	694,473,734	9.16579
University Endowment Lands	16,621,610	0.21937
Vancouver	3,104,037,901	40.96765
West Vancouver	269,129,644	3.55202
White Rock	52,964,959	0.69904
	$7,576,801,525	100.00000

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

Assessed Values Taxable by Rate for
Regional Hospital District Purposes for 1984

	Total	%
Total Assessed Values		
Burnaby	$ 902,497,469	11.54037
Coquitlam	313,596,687	4.01001
Delta	408,328,273	5.22136
Langley (City)	84,086,987	1.07523
Maple Ridge	130,076,847	1.66331
New Westminster	229,723,155	2.93751
North Vancouver (City)	249,636,387	3.19214
North Vancouver (District)	376,068,200	4.80884
Pitt Meadows	29,384,331	0.37574
Port Coquitlam	123,550,403	1.57986
Port Moody	107,663,059	1.37670
Richmond	728,510,044	9.31557
Surrey	694,473,734	8.88034
University Endowment Lands	16,621,610	0.21254
Vancouver	3,104,037,901	39.69181
West Vancouver	269,129,644	3.44140
White Rock	52,964,959	0.67727
	$7,820,349,690	100.00000